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ABSTRACT

The incidence of retardation and of hearing loss among the retarded is considered and the problem posed by the aurally handicapped who may be misdiagnosed as retarded is examined. The historical background of past and existing education for the retarded deaf is presented. A study was begun in early 1970 which concerned services for and incidence of deaf retardates among the state's estimated 29,000 institutionalized retarded. Based on samples of educable and trainable persons aged 6 to 30 in two state schools, what was felt to be a minimum percent of .07 was determined to be the number who had hearing losses. No existing programs within schools for the retarded or for the deaf were adequately serving these people. These findings provided the rationale and need for the centative proposal for a New York State Program which is described and includes site of the program facility, classes, living arrangements, vocational training and placement, and evaluation. Records, forms, and tables are appended. (RJ)

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COMPREHENSIVE PROGRAMMING

FOR THE DEAF-RETARDED

WITHIN NEW YORK STATE:

A SURVEY AND PROPOSAL

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INTRODUCTION

This proposal is an outgrowth of a study conducted by the New York State Temporary Commission to Study the Problems of the Deaf. This study concerned itself with defining the deaf retarded population, its incidence within the institutionalized retarded population, existing programs and services, resultant needs, and methods and suggested programs to meet these needs. The data collected from this study resulted in a number of meetings with state education, mental health, and rehabilitation personnel. The positive responses presented at these meetings resulted in the decision by the Commission to draft this preliminary proposal for consideration by the appropriate agencies and interested parties.

The Population

Within the United States, there exists approximately 290,000 institutionalized relarded. This figure represents only those who are committed to private and public institutions and does not include the large number who may clinically be judged retarded but are situated otherwise. Within New York State, the number of institutionalized retarded is approximately 29,000, a figure which represents 10% of the total institutionalized retarded population in the United States. The percentage of these 29,000 patients who may functionally be regarded as deaf has to date not been accurately determined. Should it be shown that



the functionally deaf (to be defined) represent a meaningful percentage of the above 29,000 patients, and that existing programs fail to take into full consideration their multiple handicaps, then it may be that New York State is failing to provide for their needs on an educational, habilitative, and humanitarian level. As the physical fact of deafness, in itself, poses formidable educational and communicative barriers, failure to provide specialized programs for the retarded deaf must result in a higher incidence of retarded deaf remaining permanently institutionalized than would be the case were special programs available. validity of this statement will be covered and supported in the section dealing with Past and Existing Programs. Thus, assuming the above conditions to be valid, New York State is imposing on itself a larger, self-perpetuating financial burden for the permanent care of these patients than would be the case were specialized programs available, programs the cost of which would be nominal compared to the lifetime custodial cost involved.

Hearing Loss Among the Retarded

There is a considerable and growing literature relative to the incidence of hearing loss among the retarded. Reported estimates range upward to 57% of the population sampled (Birch & Matthew, 1959; Lloyd & Reid, 1967). Schlanger (1961) reported a prevalence of over 50%. In testing 498 retarded patients, 210 under twenty years of age, and 288 over twenty years of age, Schlanger and Gottsleben (1956) found only four percent with



with normal hearing while thirty-five percent had demonstratable hearing losses. Johnson & Farrell (1954) in testing 270 children at the Fernold School, found that 66 (24%) showed significant hearing losses. This figure is approximately five times as great as prevails among Massachusetts public school children in similar age groups. The severity of the impairment shown by the affected children was also much greater than that of the public school children. It is axiomatic that the hearing loss of many patients goes undetected due to more prominent abnormalities. Such hearing losses should be considered as contributing in some measure to educational and social retardation, particularly among the milder retarded.

Kodman, Siegenthaler and Bradley (1958,1959,1955) all report that hearing loss is common in the institutionalized mentally retarded relative to the general population which shows a prevalence approximately one-fourth as great. These studies also suggest that up to 25% of the mentally retarded show at least mild hearing loss.

Within New York State, an audiometric study was completed by Dr. Nober of Syracuse University on the entire population of the Rome State School (1968). This study, "The Audiometric Assessment of Mentally Retarded Patients" was released in 1968. It is of relevance to note the procedure which was followed. Patients

were group screened at 30 dB (ISO) at frequencies of 500, 1000, 2000, 4000 and 6000 Hz inclusive. A "Pass-Fail" procedure was established based upon a five-point scale. Patients who failed group screening were individually tested as above. The results of a total population of approximately 4,000: 43% of the males and 44% of the females possessed hearing losses.

There is no dearth of further studies to quote; the principle findings are basically similar: that the incidence of hearing loss, ranging from mild to profound, is statistically significantly higher among the retarded than among the normal population. The majority of such studies, however, point up the problem of utilizing the findings contained therein for purposes of programming for the retarded deaf. To cite Dr. Nober's study: the findings of this intensive study provide no clue as to the number of functionally deaf patients. Although 44% of the population of the Rome State School were found to have hearing losses as defined by the procedures used, it is self-evident that 44% of this population cannot be considered sufficiently hearing impaired to warrant special programming.

Audiometric evaluation of the mentally retarded is enormously time consuming, requires highly skilled technicians, and is subject to a high degree of error. To evaluate an entire state population is a research project of major proportions. In view of factors discussed above, the need was but to approach the problem of obtaining an accurate estimate from an entirely new standpoint. It was



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decided, after careful consideration of methods and procedures, to approach this problem from a behavioristic standpoint. This procedure, in its basic concept, is direct and uncomplicated. Professional staffs, attendants, nursing personnel and patients were to be approached directly. Professional opinions were to be solicitated as to the condition of the patient's hearing and direct, behavioristic observation was to be made of all patients with suspected functional hearing losses. In terms of the number of patients directly observed and the total population covered, this method was unexpectedly swift: the 4,000 patient population of the Rome State School was surveyed in three days.

The actual studies were considerably more sophisticated than is perhaps conveyed by the above description. Forms and methods of interviewing were developed and the two man team consisted of trained professionals, one a psychologist with clinical training in working with the deaf, the retarded, and the retarded deaf. Following the above phase, the patients' folders were analyzed to obtain supporting data. This method appears to have considerable validity and will be thoroughly discussed in the section which presents the research project in detail.

DEFINITION OF THE MENTALLY RETARDED DEAF Retardation

The mentally retarded are legally so defined by legislation of each state which describes the medical, intellectual, and clinical

conditions prerequisite for admittance or commitment to facilities for the retarded. Commonly used tests of general intelligence have an arbitrary cut-off point of around 84. An individual scoring below this point is not necessarily retarded, but is under consideration for possible retardation. Such tests cannot accurately measure the level of a person's adaptive behavior. Since "it is the deficiency in adaptive behavior, not a sub-average test score, which draws society's attention to an individual and creates a need for social or legal action on his behalf...the official definition of the American Association of Mental Deficiency requires that a suspicion of mental retardation established on the basis of measured intelligence be confirmed by a clinical judgment as to the individual's actual adaptive behavior." (Heber, Rick, 1965).

Diagnosis of the mentally retarded deaf poses special problems, both in the use of intelligence tests and in clinically measuring adaptive behavior. Such will not be discussed in detail, but will be covered briefly enough to offer broad guidelines in defining the mentally retarded deaf. As regards intelligence testing, it can be stated briefly that only performance tests of intelligence should be utilized. Due to the experiential deficiency of the retarded deaf, the more culture-free the instrument, the more accurate will be the resulting estimate of intellectual functioning.

Clinical diagnosis of adaptive behavior of the retarded deaf is based on differential diagnosis. Although the clinician must naturally be experienced in the area of retardation, he must concommitently be experienced in working with the deaf and understand thoroughly the behaviorial, social and educational implications of deafness, per se. Whether or not the deaf individual suspected of retardation possesses any language, and in particular knowledge of manual communication, it is necessary that the clinician willing to assume responsibility for diagnosing such an individual himself be well versed in manual communication. Failing to possess this skill, a trained interpreter of the deaf <u>must</u> be present during the examination.

Due to the enormous language handicap posed by deafness and even mild retardation, many cases have been misdiagnosed as severely or even profoundly retarded, when their actual potential adaptive behavior is near or surpasses normal. The author is familiar with one case who was judged to be severely retarded. Following proper diagnosis and training, the patient obtained a score of 120 PIQ on the WAIS and subsequently was discharged. Vernon (1969) reports the case of a young deaf boy who was judged retarded and spent several years in a California institute. Upon retesting, he obtained normal scores and was transferred to a school for the deaf. He subsequently graduated from Gallaudet College. While such cases may in truth be extreme, they indicate the need for clinicians trained in both retardation and deafness.



Diagnosis based on adaptive behavior is further compounded due to the fact that deaf individuals exhibit a higher number of multiple handicaps. In discussing this problem, Vernon (1969) states: "For example, degrees of brain damage, autism, schizophrenia, asphasia, or visible physical defects are not uncommon. Any of these conditions along with deafness often result in test responses and behavioral patterns which are easily confused with retardation in fact, the basic problem of the differential diagnosis of whether or not any of these conditions are present can be extremely difficult in certain cases. The problem is further compounded because autism, brain damage and aphasia are known to be more common in the deaf population.

From the above remarks, it may be see that diagnosing the retarded deaf relys heavily upon differential diagnosis by clinicians skilled in working with both the deaf and the retarded. Kirk (1962) has expanded upon this concept of potential adaptive behavior, and we recommend that his definitions serve as guidelines, keeping in mind the special and specific conditions arising from deafness:

mentally retarded because they are capable of achieving a moderate degree of academic success even though at a slower rate than the average child. They are educated in the regular classes without special provisions except an adaptation



of the regular class program to fit slower learning ability. At the adult level they are usually
self-supporting, independent and socially adjusted.

- b. The Educable Mentally Retarded--Those who, because of slow mental development, are unable to profit to any great degree from the programs of the regular schools, but who have these potentialities for development: (1) minimum educability in reading, writing, spelling, arithmetic, and so forth; (2) capacity for social adjustment to a point where they can get along independently in the community; and (3) minimum occupational adequacy such that they can later support themselves partially or totally at a marginal level. The term "educability" then refers to minimum educability in the academic, social, and occupational areas.
- c. The Trainable Mentally Retarded--Those who are so sub-normal in intelligence that they are unable to profit from the program of the classes for educable mentally retarded children, but who have potential-ities in three areas: (1) learning self-care in activities such as eating, dressing, undressing, toileting, and sleeping; (2) learning to adjust in the home or neighborhood, though not to the total

community; and (3) learning economic usefulness in the home, a sheltered workshop, or an institution.

d. The Totally Dependent Mentally Retarded--Those who, because of markedly subnormal intelligence, are unable to be trained in self-care, socialization, or economic usefulness, and who need continuing help in taking care of their personal needs. Such children require almost complete supervision throughout their lives since they are unable to survive without help."

Broadly speaking, the conditions which must be met for specifying that an individual is mentally retarded are similar, on the surface, for both the deaf and the hearing. The purpose of the foregoing discussion was to stress the unique conditions resulting from deafness and to point out the nature of the instruments and training prerequisites to proper diagnosis. With this in mind, the guidelines recommended by the AAMD and those specific requirements mandated by New York State are supported.

Hearing Loss

In the foregoing discussion of a definition of the retarded deaf, nothing has been offered relating to the actual degree of hearing impairment. The great majority of published studies relating to the hard of hearing or deaf retarded deal solely with audiological aspects of the problem. The difficulty in utilizing the results of these studies for purposes of special programming was pointed out earlier.

Audiologically, who should be included in a special program for the retarded deaf? This problem is roughly analagous to a diagnosis of the retarded deaf based on IQ and clinical judgment. IQ, as we have seen, is subject to error and difficult to assess, while clinical judgment, even more difficult, is based on the gestalt, the total life circle and actual and potential functioning of the individual. So it is with the hearing of the individual: both measured hearing and functional (psychological) aspects of this hearing must be considered.

Although it may come as a surprise to the reader, there is no pat, universally accepted definition of functional deafness. In any single case, professional opinions as to the severity of the hearing loss, in a functional sense, may be obtained which will vary in their judgment.

Schools and institutions charged with the responsibility of educating the normal deaf child, i.e., the child in which deafness is the only existing known handicap, have formal, general guidelines which are more or less in agreement. One such which is commonly accepted is as follows: an individual who possesses an average 60 db loss or greater in his better ear across the 500-2,000 Hz range (ISO) may be considered as demonstrating the need for special educational or training programming. There is little difficulty in identifying the normal deaf individual whose loss meets or exceed these standards. With the retarded, there is a greater need for differential diagnosis to determine that responses or lack of responses are due primarily to hearing losses and not other CNS pathology and/or behaviorial patterns.

As severity of hearing loss reaches or falls below the above guidelines, much analytical skill is needed on the part of the examiner
to determine the functional severity of the loss. Two general
considerations are of importance here. The first of these is
technical. The typical audiogram specifies only the db loss
across a specified Hz range. Etiology of the loss, speech discrimination scores, locus, and many additional technical consideration play a role in determining whether or not the loss may be
considered functional. This cannot be covered further in this
paper. Only a qualified audiologist could competently discuss the
above considerations. It should be remembered that each case may
vary with the individual and would need to be diagnosed individually.



The second consideration is psychological. It may be determined that the individual's loss is such that perhaps with a properly fitted hearing aid, he should be able to function adequately within a total hearing environment. At the time of such diagnosis, however, it may be determined that this individual to date may have <u>functioned</u> as a deaf individual. As an example, at the time of diagnosis, this individual may have spent his school years within a residential school for the deaf and/or may have deaf parents and siblings. His experiential life has been confined to the world of the deaf. Whether the need exists or not for further special programming must take into consideration these factors. Such applies to an even greater degree with the retarded deaf.

The above discussion has attempted to take into consideration basic factors involved in defining the retarded deaf. It is not meant as exhaustive. In defining retardation in the deaf, guidelines similar to those used in defining the non-deaf retarded are supported, with additional consideration being given to psychological and behavioral factors resulting from deafness.

In dealing with the degree of hearing loss as a criteria for inclusion of an individual for special programming, general guidelines were suggested. The need for an analytical approach in determining the individual's functional hearing loss was stressed, including psychological factors and the individuals'



prior overall background.

Combining the above factors involved in defining the retarded deaf, the absolute need for comprehensive differential diagnosis was shown. An excellent paper discussing this approach is Vernon's "Diagnosis, Retardation, and Deafness", (1970).

HISTORICAL BACKGROUND: PAST AND EXISTING PROGRAMS

Residential Schools for the Deaf

This section is designed to give a brief overview of past and existing programs for the retarded deaf within the United States. It is not meant to be exhaustive. Although such services exist, there has been no research to date on the number, type, or nature of these programs. To research and catalogue the above is a project, the scope of which is beyong the present proposal. The author believes that the overview which follows is reasonably accurate and comprehensive, but realizes that omissions are inevitable. The purpose of this overview is to give a perspective and a base for building upon the proposed program for New York State.

There are two general types of special services for the retarded deaf, characterized by the setting in which they are provided. The first, and undoubtably the oldest, are special classes provided for the multiply-handicapped (and in a few instances, the retarded alone) within residential schools for the deaf. The second are specialized educational and training programs established within state institutions for the retarded. The latter are relatively recent,



few in number, and vary considerably in the scope of services offered. We shall first cover briefly the general nature and limitations of classes for the retarded within residential schools for the Deaf.

Residential schools for the deaf, with few exceptions, are designed to provide educational and training opportunities for the normal deaf up to approximately 21 years of age.

The students enrolled, in the majority of cases, possess only one major handicap, deafness. Due to the etiology of deafness, however, a number of such children will exhibit various other behavioral and learning handicaps. Additionally, due to medical advances which enable the victim of a disease to survive (including prenatal diseases and complications), a greater number of deaf children are found to be multiply handicapped. Thus, within nearly all schools for the deaf will be found special classes in which the multiply handicapped deaf child is placed.

Such classes are generally not designed for a specific learning disability. The child with aphasia, retardation, behavioral problems, or the broadly classified "slow learner", are all placed within such a class. The results, in terms of educational achievement, are not optimal.

Most retarded deaf, found within residential schools, may be classified as mildly retarded. Moderately retarded students are occasionally found. Less often one finds a severely retarded student. The profoundly retarded, to this author's knowledge, do not exist within the residential school setting. The total number of retarded deaf within residential schools for the deaf is infinitesimal compared to the estimated total deaf retarded population. The reasons for such are selfevident. The concept of adaptive behavior precludes adequate programming, as the student within such a setting is expected to conform to the normative behavior of the deaf student with normal intelligence.

While New York State schools for the deaf have no set policy to preclude admittance of a retarded deaf child, neither do they have a policy stating the conditions for admitting such a child. It would appear, in short, that the problem has officially been avoided. Due to the problems of differential diagnosis, mildly retarded deaf children may exist in some number in residential schools, as may a number of moderately retarded deaf students. Should such an individual's measured intelligence and adaptive behavior preclude reasonable educational and behavioral advancement within this setting which would result in his becoming a self-supporting member of society, the probable result would be eventual referral to a state institute for the retarded.

Residential schools, therefore, do provide some services for the mild to moderately retarded deaf. These services are, however, minimal and not designed specifically for the population in question. Anderson, and Stevens (1970) have investigated this problem on a national scale and the reader is referred to their paper for a more exhaustive review of the retarded deaf within residential schools for the deaf.

State Schools for the Retarded

The Directory of Services for the Deaf In the United States (1970) contains listings of both mental health facilities serving the deaf and special classes for the multiply-handicapped deaf. Unless one is individually acquainted with a specified program, there is no way to determine the extent to which the programs and classes service the retarded deaf. The great majority of those which do offer services to the retarded deaf do so incidentally and confine themselves to the upper range of retarded. The author is familiar with the following programs which will be discussed. They are the only programs known to the author which provide specialized and/or comprehensive educational and social programs for the deaf within a state residential setting. Additional programs may be in planning stages (as is the present proposal) or in progress, but are not reported in the literature.



A note should be made here regarding speech and hearing services within institutes for the retarded. A majority of state institutes provide these services. The personnel staffing these units generally confine themselves to providing speech therapy and audiological measurement on an individual or small group basis. In known cases, the therapist, in attempting to work with the retarded deaf, has utilized the simultaneous method (speech, fingerspelling, and manual communication) in attempts to provide actual learning situations. As laudable as the services and individual efforts are, they do not approach the type of comprehensive programming necessary to achieve the results sought in this proposal. Such services, are, however, considered integral parts of a comprehensive program.

Classes for the Retarded Deaf

There are two general, overlapping types of special services for the deaf within state institutes for the retarded. The first consists of specialized teachers within an educational and/or training setting. These individuals are trained in both the areas of deafness and retardation. Classes are conducted during regular school hours, with the curriculum and methods designed to meet the needs of the retarded deaf.

These classes are conducted in the simultaneous method. A number of such classes are in operation in various states.

California conducts such classes at Sonama, Porterville, and Pacific State Hospital. There are a limited number of similar classes, not reported in the literature and the extent of their programs unknown.

The benefits of these classes are unquestioned. They provide the residents with educational and habilitative opportunities which would not be open to them otherwise. Thus they have the opportunity to function at their actual potential. It is within such classes that the concept of language, a visable, formal means of expressing thoughts and emotions, may be first opened up to these individuals.

Programming of this type has a number of built-in limitations. One is the number of residents who can be considered for inclusion. The age range is by perforce limited. Important auxillary services such as psychological evaluation and therapy, if available, are provided by professionals with a limited working knowledge of the deaf and a limited ability to communicate with same. Prevocational, vocational, and placement services are nonexistent. Most importantly, the structured social and residential environment is missing. When the school day is over, the resident is reabsorbed into large wards and the opportunity for continued training and reinforcement is lost.



Comprehensive Programs

Two comprehensive programs for the retarded deaf within state institutes for the retarded are presently in existence. These programs are located at the Austin State School (Texas) and the Lapeer State Home and Training School (Michigan). Both programs will be covered, offering, as they do, structured programs and research findings relevant to the present proposal.

Austin State School Program

The "Redwood Project" at the Austin State School, so-named after the cottage in which the residents of this special program reside, is a reasonably comprehensive program now entering its second year. "Combining elements of communications training, academics, prevocational and vocational/placement services, the "Redwood Project" is geared to serve some forty deaf retarded students ranging in age from 12 to 30 years. The physical structure consists of two academic classrooms, a residential unit for eighteen young men and related institutional training stations and program areas suitable to the project needs. The residential living unit program emphasizes the development of independent living skills with the ultimate goal of preparing the participants for community placement in either half-way house or home placement programs." (Hall and Talkington, 1970).



The methods and procedures by which residents were selected for this program are not reported. Presumably they were drawn from the existing resident population. Determinations were made as to present level of functioning and what would be needed for eventual return to the community. Project residents were evaluated at multi-disciplinary staffings where their needs were weighed against the program services available and an individual program developed for each resident. The actual program aspects were covered in three phases, each emphasizing various priorities for the development of fourteen progressive skill areas (Talkington, 1970).

In Phase I, emphasis was placed on acquiring manual communication skills by both the residents and staff. A book, A Manual Communication System for the Deaf Retarded (1970) was developed and published. Pre-academic and concept formation training was emphasized. Regular auditory training was a part of this phase. Social responsibilities in the cottage area was stressed.

In Phase II, academic skills of reading, writing, and arithmetic were pursued in greater depth. Prevocational and selfcare skills were taught. General grooming habits and continued social responsibility were stressed. Supervision was
gradually lessened.

In Phase III, the main emphasis was on vocational training and preparation for returning to the community. Various aspects of the first two phases were continued.

Staffing for this program at the beginning included a director, a teacher, two part-time aids, and six attendants in the cottage. Professional supportive services were called upon as needed.

The above is a brief overview of the purposes and structure of the "Redwood Project". The program is new and is expected to grow. In-depth data analysis of the results has not yet been completed. Two immediate results, however, have been observed. The most important is the increased ability of the residents to utilize language. Communication, through manual communication, has increased greatly. Secondly, deviant behavior problems including stealing, runaways, and acting out have decreased significantly.

Lapeer State School Program

The program at Lapeer began as a four-year project to study habilitation of the deaf retarded. This project was supported in part by Vocational Rehabilitation Grant RD800 S. The Lapeer project was the most thorough, comprehensive study of the deaf retarded attempted to date. The study population consisted of 169 residents, ranging in age from ten to forty.



Length of hospitalization ranged from six months to nearly thirty years.

The project was divided into two main phases; the Assessment phase and the academic and vocational training phase. The following overview of this program will be brief in relation to the data and activities resulting from the program itself. A selected number of exhibits and tables will be referred to, and it is to these exhibits and tables to which the reader should turn for an understanding of the characteristics of the population and the results of the program.

The overall goals of this program may be stated as follows:

- Provide definitive diagnostic measurements for that group of institutionalized patients who were previously characterized as mentally retarded and deaf or hard-of-hearing.
- 2. Provide the information essential to the planning of a training program which would include considerations of vocational rehabilitation.
- 3. Provide measurable results of those training techniques and procedures most productive with specifiable groups of patients.

The assessment phase evaluated the physical, psychological, and educational characteristics of the population. This was necessary in order to develop an appropriate training



program. However, this task was enormously complicated by two factors: 1) the lack of language and communication skills by a large part of the population, and 2) a paucity of valid methods of assessing their abilities and capacities. Existing tests and techniques were not designed or normed for this population and their validity was therefore in doubt. It was necessary, therefore, to develop a number of instruments to accomplish stated objectives.

The following exhibits and tables are presented due to their relevance to, and possible utilization in, the proposed program for New York State. Exhibit 1 presents the Medical-Physical Examination used in screening this population. Exhibits 2, 3, and 4 are examples of the psychological and psychiatric scales developed to measure behavioral and social adjustment.

Table 1 presents the characteristics of this population while Table 2 gives the measured academic achievement. Table 3 lists the number of physical disabilities in addition to presumed mental deficiency and deafness.

Tables 4 through 8 give comprehensive data on hearing and speech characteristics. Tables 9 and 10 present intelligence data by age and sex. Correlation data based on IQ and audiologic data and between other diagnostic measures are presented in Tables 11 and 12.

The considerable amount of data generated from the Assessment phase provided a means for selecting groups of patients from the total sample for intensive academic and vocational training.

Following the Assessment phase, the actual training program was initiated. Space does not permit an adequate description of this program. The reader is referred to the report Programming Habilitation of the Hospitalized Deaf-Retarded (1965). However, the basic framework of this program will be described.

The program, in operation, consisted of four academic classes and a prevocational training class. Males were housed in a separate cottage with appropriately trained attendants. Females, due to the smaller number, were housed in various buildings. The specialized training and supportive services, therefore, extended into all aspects of the residents' life.

A full-time clinical psychologist, experienced in working with the deaf and the retarded, provided on-going psychological evaluation, psychotherapy, and assisted in the general administration of the program. A full-time speech therapist provided auditory training and speech therapy. A work-training teacher provided prevocational instruction. All four academic teachers were experienced in working with the deaf.

Attendants and nurses received on-going in-service training in working with this population. Other professionals were consulted as the need arose.

Three general types of work placement were effected during the program. These were: 1) sheltered workshop (Goodwill Industries), 2) institutional work, and 3) outside work placement. The data collected indicated that the deaf retarded patient, with training appropriate to his basic abilities, is capable of functioning in one of these three areas. Table 13 presents data on intellectural functioning and aptitude as they relate to eventual placement in one of these programs. Objective data and observations reported by the staff indicate clearly the positive effects of the program on the overall achievement and performance of the subjects involved. The reader is referred to the full report cited earlier for supporting data for this statement.

One serious omission in the structure of the program was the absence of a facility, a half-way house, which would serve as a residence outside of the institution and ease the transition from institute to community living. A number of residents, who otherwise would have qualified for sheltered workshop or community placement, were denied this opportunity due to their special social requirements and the lack of such a facility. A model for such a half-way house exists in Austin,

Texas and will be discussed in the section following the proposal proper.

The Lapeer program demonstrated without question the feasibility of specialized, comprehensive programs for the retarded deaf. The intangible human benefits can be measured only in small part by changes in performance and work placement. The economic benefits to the state in terms of resident discharge versus life-time custodial care have been documented. The experience gathered and the data made available from the operation of the foregoing special classes and programs will serve as a base for developing and presenting the proposal for a comprehensive program for New York State.

THE COMMISSION STUDY IN NEW YORK STATE

The present proposal grew out of a study undertaken by the New York State Temporary Commission to Study problems of the Deaf. The Commission is charged with investigating areas of concern to the deaf and hard-of-hearing within New York State. In the spring of 1970, the Commission directed its attention to the question of what services were available to the retarded deaf population. As the total institutionalized retarded population was in the area of 29,000, the magnitude of the question and the lack of accessible, accurate information was of considerable concern to the Commission.

During the summer of 1970, the services of a consultant were retained on an open-end basis to survey the problem, develop feasible techniques for obtaining statistically accurate data, obtain such data, and, should the need for such be determined, prepare a proposal for establishing program(s) for the retarded deaf for consideration by the appropriate agencies and interested parties.

It was first determined that, within the 15 state schools for the retarded, there were no existing special programs for the retarded deaf. This statement excludes speech and hearing services and religious instruction of the deaf by clergy whose pastoral calling is in working with the deaf. Considerable consideration was then given to the most optimum procedures for proceeding with the study. In an Interim Report prepared for the



Commission following the actual data collection, the rationale for the procedure followed was explained. As a number of factors which influenced the course of the study have been discussed in detail in prior sections of this report, i.e., audiological assessment techniques, differential diagnosis, and lack of funding for a prolonged, extensive exploratory study, the present section will confine itself to covering the rationale only briefly.

It was determined that there were no existing programs which were adequately serving what was suspected to be a fairly large population, either within schools for the retarded or schools for the deaf. The Commission was fortunate in having knowledge of programs for this population which existed in other states and therefore had some understanding of the structure such a program should take and justification for assuming both the presence of such a population within New York and the lack of program(s) to service the popoulation.

Accepting the nonexistence of specialized programs, the basic problem confronting the Commission was to obtain a representative sampling of the total institutionalized retarded population and determine, in whatever manner decided upon, the percentage of this population which possessed functional hearing losses, as defined earlier in this report. The criteria for the data which would determine the above would need to be such that various agencies and disciplines would be in general agreement as to the validity of an approximate percentage. If the minimum estimate of the

retarded deaf population was deemed sufficient to warrant special programming, a proposal would be prepared accordingly.

On the surface, the most optimum procedure and methodology for determining the above would be to conduct an audiometric assessment of a representative sample of the population. For reasons discussed earlier in this report, such a procedure was not feasible. Firstly, the money, time and manpower were not available. Secondly, the technical problems involved in audiometric assessment of large numbers of retarded are formidable and not always reliable. Thirdly, to provide absolutely reliable data which would identify the retarded deaf, differential diagnosis based on psychological examination would be needed. It was decided, therefore, to adopt a behavioristic approach which would involve direct contact and clinical observation of the population in question. This will be further detailed later in this section.

The population

It was decided to limit the present study to institutionlized retardates between the ages of 6-30 who were considered trainable or educable. These parameters were arbitrarily chosen, but were based on the following reasoning: (1) the 6-30 age group is an optimum one for training and educational purposes; (2) identification of the deaf retarded below the ages of six is more difficult and subject to greater error; (3) inclusion of patients over 30 years of age would mean in-



clusion of a larger number of patients whose hearing loss is associated with age per se and would result in an inflated estimate of patients who could be expected to profit from special programming.

The choice of trainable and educable categories is self evident. Patients functioning below this level could not be expected to profit from a special program for the retarded deaf. As it is, the term "trainable" is a general term, not medically descriptive. It allowed considerable lasitude as to which patients should be included. This was an important consideration in dealing with the deaf retarded. In this study, an attendant might include a patient whom he considered trainable; the patient's folder might indicate, however, that measured IQ was below 20. Due to possible errors in measurement, such patients are included in this report.

Two schools were selected as representative samples for this program, the Rome State School and the Newark State School. Both were selected for their sizable population and the expectation that the sizes of their populations would enable surveys to be completed within specified time limits. Additionally, the Rome State School possesses extensive professional services and the consultant had had prior contact in evaluating the deaf retarded at the request of the school. It had been planned to add additional schools had the statistical need shown itself. It did not prove necessary and this survey, therefore, represents the trainable and educable populations of these two schools.

The population of the Rome State School at the time of this survey was approximately 3,800 patients. Of this number, it was estimated that 950 were trainable or educable and between the ages of 6 and 30. The population of Newark State School was 2,326. Of this number, 626 were between the ages of 6-30 and were considered trainable or educable.

Procedure

The behavioral approach to obtaining the data in question was simple in concept. Basically, the method was to identify all patients falling within the age and intelligence (adaptability) criteria. Following this, direct contact was to be made with attendants, teachers, nurses and other professional personnel and question them as to patients they felt should be listed as deaf retarded, as defined earlier in this report. Concurrently, each patient whose name was offered was met individually and clinically observed. A standardized form was developed to record all pertinent data. A sample of this form is given in Exhibit 5.

When all direct interviews and observations were completed, the resulting data were analyzed. With this information, the institute folders of each resident listed as retarded deaf were reviewed to obtain additional objective data relating to measured hearing loss, medical classification, program, and the like.

The resulting data were again analyzed and combined with pertinent comments from the folders and personal observation. The results of these findings are discussed below.

Results

The statistical results of the study may be found in Tables 14 and 15. Table 14 presents data on the Rome State School. The number of trainable and educable residents between the ages of 6-30 is estimated as 950 out of a total population of approximately 3,800 residents. The administration was asked, prior to the survey, to estimate the number of trainable and educable deaf retarded regardless of age. The number given was 156. The survey found, that out of the total 950 trainable and educable residents between ages 6-30, that 64 met the criteria of being deaf-retarded. This represents 7% of the population in question.

Table 15 presents data on the Newark State School. Out of a total population of 2,326, it was estimated that 626 residents were trainable or educable and between the ages of 6-30. Out of this number, 46 met the criteria of functional hearing loss. This represents 7% of the population in question.

The IQ range of the deaf retarded between ages 6-30 at the Rome School was minus 20 through 85. At Newark, this range was minus 20 through 81.



Exhibits 6 and 7 present detailed data on each of the residents listed in this survey as being deaf retarded, trainable or educable, and between the ages of 6-30. The residents are coded and their names can be made available on request to the proper authorities. The data included in these exhibits is self explanatory.

Discussion

A notable omission in the above two exhibits is audiological data dealing with type and degree of measured hearing loss. In almost all cases, such data was not available in the resident folders. In discussing this with the personnel involved, it does not seem that such testing has been carried out.

The results of the surveys at the Rome and Newark State Schools are identical. Out of the trainable and educable ages 6-30 population, 7% were found to meet the criteria as deaf retarded. These findings must take into consideration the fact that objective audiological assessment is lacking. But, from the data presented, the weight of evidence leads one to the reasonable conclusion that the figures reported are a reasonably accurate, minimum estimate of the deaf retarded population. Should the age range of the population studied be expanded, the percentage could be expected to increase slightly. The primary purpose of the Commission study was to obtain a minimum estimate of the number of institutionalized deaf retarded who were considered trainable and educable. A breakdown of the total number of



trainable and educable retarded, ages 6-30, is not available to the author at the time of writing. However, projecting the 7% figure to the total retarded population in New York State of 25,765, without regard to age or intelligence, one obtains 1,803 as the number of retarded deaf.

During the period in which the survey was being undertaken, data was obtained from the State Department of Mental Hygiene relative to a resident survey of all 15 state schools. The portion of this study which is of interest to us concerns questions relative to the hearing status of the residents. Attendants were requested to report simply whether a particular resident had normal hearing, was hard-of-hearing, or was totally deaf. Table 16 presents the results of this question. The percentage of residents who were classifed as hard-of-hearing was 5.5 and those classified as totally deaf was 1.6. The combined total was 7.1, which corresponds to the findings of the Commission survey. As a result of the combined findings of the Commission and State surveys, it was felt that the data were sufficient to indicate a real need for specific and specialized programs for the retarded deaf population.

As a further comment on the above data and the statement to the effect that the 7% figure is considered a minimum estimate,

Tables 17 and 18 present the results of a survey conducted at two Maryland State Hospitals for the Retarded (Vernon, 1970). The

results of these surveys indicated that 14.5 percent of the population possessed hearing losses, ranging from mild to total deafness.

The behavioral approach, as a reasonably swift method for obtaining an approximate estimate of the number of retarded deaf within a given total retarded population, appears to have some validity, based on the results of the present study. The number of retarded deaf identified and estimated by the present survey appears to be of a sufficient figure to justify special educational and training programs to meet their needs. Accordingly, the following section will present a proposal for establishing a pilot program.

PROPOSAL FOR A NEW YORK STATE PROGRAM

The sections proceeding what is to be proposed contain the basic rationale and demonstrate the need. Information and data were presented which can serve as general guidelines in developing a program for the retarded deaf within New York State. The following proposal does not represent the recommendations of a consensus of professionals, but of the author of this paper. It is, however, based upon the success of existing programs and supports the thinking and philosophy of professionals engaged and/or acknowledgable in the area of the retarded deaf. It should, therefore, be considered a tentative proposal, presented for discussion and review by the agencies involved in its possible implementation, by superintendents of state schools for the deaf, and by professionals acknowledgable in the field.

In accepting the need for specialized programming for the retarded deaf where none now exists, the first question to consider, assuming a comprehensive program, is the setting in which the specified objectives may best be accomplished. Three possibilities exist: (1) comprehensive program(s) within residential schools for the deaf; (2) comprehensive program(s) within existing state schools for the retarded; (3) a free-standing school, independent of (1) and (2) above, but nevertheless under the supervision of a state agency or agencies.



It is felt that a free-standing school or institute would theoretically best meet the needs of the deaf retarded population. If such were to be established, however, it would evolve out of experience with a smaller, although not necessarily less comprehensive, program. The State Education Department has discussed the possibility of establishing a separate unit for the multiply-handicapped deaf at the Rome State School for the Deaf. Such a unit would not be designed specifically for the retarded and would most likely limit admittance to the mildly retarded. It is felt, therefore, that at the present time, that comprehensive programming for the retarded deaf can be best established and carried out within the structure of an existing state school for the retarded.

It is therefore proposed that the State Department of Mental Hygiene officially adopt a position on the need for comprehensive programming for the institutionalized retarded deaf and that sufficient staff be assigned to investigate and make recommendations on the most optimum ways and means in which such programming may be instituted within the structure of an existing state institute for the retarded.

The sections which follow offer for consideration suggested structures, concepts, and parameters for comprehensive program. They are neither rigid or exhaustive and are meant to serve as general guidelines.

The Population

The exact nature of the population to be included in this projected program would vary according to a number of factors. Assuming that appropriate facilities could be obtained, the following parameters are suggested for the original, or pilot, group.

Size of Program

The number of residents to be included should range from 75-100 for the pilot group. This could be enlarged on as the program developed, but is recommended at this point for the following reasons: 1) In-service training would be needed for most staff involved at the beginning; the larger the resident group, the larger the staff needs. Beyond a certain number, in-service training would become cumbersome and affect the progress of the program itself. 2) The program, being new, would undergo modification during its first year or so. Such can more readily be accomplished with a group of the It is recommended that the original group above size. 3) be limited in age range and IQ. The more adaptable residents should be included first. The limited number meeting the original criteria would by necessity restrict the number available for inclusion. In relation to this, consideration should be given to retarded students enrolled in state schools for the deaf whose superintendents felt could benefit by inclusion in this program.



Age Range

Residents to be included in the educational and training aspects of the program should range from six to approximately 40 years of age. It is not felt that an arbitrary cut-off point for schooling should be established. However, it is expected that the older residents would be more involved in work training and placement than in an academic setting.

Sex

Hopefully, it would be possible to arrange comprehensive programming for both males and females. It is known that the number of deaf retarded females is lower than deaf retarded males. Should the population pool which would be drawn on prove sufficiently large, this objective should be kept in mind and a balance achieved. The primary objective here is to have a sufficiently large enough number of both males and females so that separate, self-contained residences could be established.

Intelligence - Adaptability Level

The range of intelligence proposed for the original program is difficult to postulate due to factors which were discussed earlier. Measured intelligence, prior to thorough evaluation and training, may or may not be indicative of the actual level of functioning. Obtaining such measures presupposes the use



of appropriate nonverbal instruments administered by personnel with prior training with the deaf retarded. Differential diagnosis should be the procedure by which the residents' level of functioning and adaptive behavior is determined for inclusion.

For the original program, it is deemed desirable to select those residents who possess the highest actual and/or potential intelligence and the highest level of adaptive or coping behavior. This level would be extended downward as necessary to obtain the desired number of residents. It is not possible, therefore, to determine in advance the actual IQ-adaptability level of the residents who would comprise the original group. There would, based on the experience of prior programs, most likely be three or four general levels of functioning involved. As selection reached the lower levels of functioning, the process should retain a degree of flexibility. There would be basic criteria, however, below which a resident would be excluded (for the original group). Basic self care habits (the degree dependent on age) would be necessary.

Criteria would need to be developed for both evaluating and selecting residents who possessed additional multiple handicaps and demonstrated emotional disorders. Generally, the staff structure and services should be such that only the most extreme and/or handicapping conditions would warrant exclusion.

Site Choice

The author is not familiar with the size, structure, and facilities of all 15 state schools for the retarded. those with which the author is familiar, the Rome State School appears to be the most ideally suited for development of this program. The administration of the RSS has expressed an interest in developing programs for the retarded deaf for some time. They were most helpful in the development of the present proposal. Present facilities, projected development of future facilities, and their concept of programming for specialized groups lends itself favorably to a program of this type. Supportive professional services are comprehensive. The Rome State School for the Deaf is located in close proximity and may be able to provide certain professional services and could serve as an incentive in attracting professional staff to this area. Should the proposed program draw upon the deaf retarded population in existing state schools, the centralized location of the Rome State School is well suited to this purpose.

Assessment

Techniques and measures of assessment have been covered earlier in this report. Examples of specialized rating scales for the population are contained in the Appendix. A few general comments are in order. Measures of intelligence, academic



achievement, and personality should be obtained. Medical and audiological evaluation should be completed. Care should be exercised, however, not to prolong the assessment phase or attempt to obtain data superfluous to the actual implementation of the program. Assessment and evaluation are continuous processes and can and should be refined upon throughout the course of the program and not prior to its actual implementation. We will not attempt to list or cover the actual instruments and methods to achieve this. Such has partially been discussed and listed previously. The approach to assessment should be multidisciplinary, involving consultants from both the fields of deafness and retardation and from the disciplines of medicine, psychology, education, and vocational training.

General Program Structure

The discussion which follows covers the major components of the proposed program which are considered essential to its optimum success. They are covered briefly and broadly and the objective is to show how each is essential and fits into the total program.

Classes

The education(i.e., pre-vocational) program should focus on training in communication, reading, arithmetic, and shop or homemaking skills. With younger and/or lower functioning



residents, the thrust would be in acquiring very basic concepts, language skills, and the development of improved personal care skills. At this level and, to a lesser degree, at higher levels, such must be taught through the manipulation of material objects and through a program of behavioral reinforcement. Classes should be as homogenous as possible. Teachers should not rotate, but should teach one level of class(es). Prior experience with the retarded deaf has indicated that maximum class size should not exceed eight to ten students.

Residence Living

Absolutely essential to the success of the program are separate, "self contained" residences for both males and females. This would result in placing together residents varying considerably in age, adaptability, and emotional stability. It is realized that such may not be viewed as the most optimum programming. The advantages inherent in this, however, by far outweigh any disadvantages. Domiciled in such a setting with trained attendants, the interaction and programs possible which would enrich the impact of education and other services greatly increase the growth and social development of the residents. It enables the existence of an entire living experience which can reinforce their socialization and communication skills. In implementing the proposed program, the above must be allowed for and arranged.



Counseling-evaluation-psychotherapy

These services are essential to both the direction of the program and the welfare of the residents. The Lapeer program demonstrated this need from the development of the assessment phase through the actual operation of the program. The residents involved profited from the counseling, play therapy, and individual and group therapy provided. In-service training of both professional staff and attendants was provided by the psychologist involved. The nature of the program, with its requirements for behavior modification, knowledge of the psychology of deafness, and understanding of the medical and psychological aspects of retardation require that services in this area be given primary consideration.

Vocational Training and Placement

The ultimate objectives of the proposed program are either the return of the individual to the community, in terms of sheltered placement or independent living, or optimum adjustment and utilization of skills within the institute. In either case, successful attainment of these goals results in a decreased financial burden to the state and, far more importantly, to humanization and the attainment of a degree of human dignity by the individual.

Outside of academic and basic shop courses available to the residents, a work-training program should be considered



integral. This program would have two major objectives: 1) it would provide the needed training in basic work habits and skills and it would offer, within the institute, actual work for pay made available by outside industry on a piecemeal basis. Ultimately, two types of residents would be involved in this program: those who were acquiring skills and might return to the community, and those who could perform the functions involved but must remain within the residential setting.

Work Placement

Those residents who attain the necessary skills and levels of adaptability may be expected to enter into one of four types of work placement. These are: 1) institutional work assignments; 2) sheltered workshops outside the institute with either residential or half-way house living following working hours; 3) general community work placement with residence in a half-way house, and 4) complete, independent community placement.

A program such as the one proposed may combine all of the above suggested components, yet, if it fails to provide for a transitation between the institute and the community, it is doomed to limited success. With the retarded deaf and the resulting communication and experiental barriers, this is especially true. For the success of this program, there is an absolute need for the establishment of a "half-way"



house within the community. In the development of this proposed program, consideration should be given to the ways and means by which this could be accomplished. Such a home need not be a part of the program per se, but could be established by other agencies and independent, volunteer organizations. The <u>Vaughn House</u> in Austin, Texas is the only known such facility for the retarded deaf. It should serve as a model.

Such is the proposed general structure of the program. Staff needs have not been detailed specifically, but should be apparent from a reading of the whole report. They would depend on the actual program agreed upon, but will be outlined briefly. The minimal staff for a project of this scope should include a director with the prerequisite broad background, preferably in psychology and experienced with the deaf and retarded; special education teachers experienced with the deaf and preferably with the retarded; a speech and hearing therapist; a work training and placement specialist for both the institute workshop and community placement; a psychologist to conduct evaluation and therapy; personnel to staff a half-way house; necessary attendants to staff residence halls; and additional staff as proves necessary. Medical, psychiatric, and other services within the institute would be called upon as needed.

It seems well to end this proposal with several general observations made by the staff of the Lapeer project at the completion of the formal study.



General Observations

- (1) It is well to formulate a program of this kind precisely in terms of its particular goals in direct relation to the types of patients to be included. Following this, the limiting conditions under which these goals can be achieved should be carefully studied and it should be determined which of these exist or can be established in the institution setting. When a realistic compromise between required and available conditions has been achieved and goals redefined in terms of this compromise, the actual mechanisms for goal achievement with the patients can be specified. The larger this list of mechanisms, the greater the likelihood of program success because not only the setting but also experience with the patients will dictate changes in particular mechanisms initially selected.
- (2) Specialists who serve as consultants are useful extensions of the project staff but the staff, not the consultants, should determine the program goals and this delineation of function should be made both explicit and specific. Staff must evaluate consultants' suggestions in the context of the total institution program as well as the particular program. While this appears to be a gratuitous statement, in practice, in part because of problems of obtaining full-time staff, it is remarkably easy to let the planning fall into the province of the "experts" with a consequent loss of direction at the program level.



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- (3) Careful study of legal requirements related to job placement and payment for service should accompany program planning since they directly influence the conditions under which vocational training and placement can be carried out. In fact, failure to resolve these seemingly minor problems in advance can defeat the ultimate purpose of the program.
- (4) Advance reading of the literature and employment of knowledgeable staff with experience not only in the substantive area of the deaf and retarded but also in institutional settings are all obvious but sometimes ignored rules.
- (5) Use of sign language is very important to the success of a program and at least those persons who are to conduct the formal education including the communication training should have this ability. Other staff members working with the patients should be taught signing at the outset.

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APPENDIX

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MEDICAL-PHYSICAD EXAMIKATION (Deaf-Retarded Project)

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Case Murbor		Abnormal							Abnormal					Abnormal										
		Formal				İ			Hormel					Korzal										
Date (Tear) (Month) (Day)	Exmining Physician	F. Circulatory System:	Blood Pressure	Heart Rate and Regularity	Palpation	Percussion	Anscultation	Peripheral	Di Di canti vo Synten		Pharyn	Abdomon and Pelvis		H. Conito-Urinary Systemi	Halo Penis	Scrotum and Testes	Prostate	Jenele	External genttella	Vagina	Certx	Uterus	Kasses (tenderness, noblity)	
1					Remering					Remarko:						Remarks;						Remarks:		
t) (Hiddle)			nde)	Warmer Others		BIBABC				Severe						61 82 67						Abnormal Remarks:		
,			elght (Pounde)	Color Color Harman Others																				
(Mrst)			Yeight	male () Color Konne Otton		Moderate obsesse				Moderate Severe						Moderate Severe						Normal Abnormal		
(First)	Kospital	A. General:	Helght (Feet) (Inches) Welght (Pounds)	Fensle () Color	(אווז הפי שפונסי סיוומי ו	None Alla noderate Savere	Mruptions	Pignentations	90000	Mild Moderate Severe	Axis Deformity	Scollosis	Lordosts	Pain	Limitation Of Hovement	Wild Waderate Severe		Deformity	Limitation Of Movement		Pain	Abnormal	Noes	Chost

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Normal Abmormal Remarks:	Renarkat		J. Corobrospinal System; (Continued)	Formal	Abnermal	Rougeket
			NOT TOXOL			
			Grenaeteric		}	
			Plantar (Babinski)			
	-		Hoffmen	•		
Normal Abnormal Renarks:	Renarks:		Clonus			
			Chaddock			·
			Opponheta		}	
			Rossilino			
		•	Sensory Aunction			
			Touch	Ì		
			Heat			
			Cranial Nerven			
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Abdominal

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Athma Allorgies T.B. Chronic Bronchitis Sinus Attacke Rheumatic Fover Bardening of the Arteries High blood pressure Heart trouble Stroke Trouble with varicose Frouble with varicose Trouble with varicose Stonech ulcer Athmitis or piles Other chronic stonach trouble Stonech ulcer Arthritis or rheumatism Prostate trouble Diabotes Thyroid trouble or goiter Convulsive seizures Rhornic skin trouble Frunce cancer Chronic skin trouble Frunce or rupture																									
Chronic Conditions: Allergies T.B. Chronic Bronchitis Sinus Attacks Rheumatic Fever Bardening of the Arteries High blood pressure Heart trouble Feart trouble Ströke Trouble with vericese Trouble with vericese Gallbladder or liver trouble Stomach ulcer Other chronic stonach trouble Stomach stons or other symptoms Arthritis or rheumatism Frostate trouble Diabotes Thyroid trouble or golter Convalsive selzures Ropeated back symptoms Thyroid trouble or golter Convalsive selzures Ropeated back symptoms Thyroid trouble or golter Convalsive selzures Ropeated back symptoms Thyroid trouble or golter Convalsive selzures Repeated back symptoms Thyroid trouble or golter Convalsive selzures Repeated back symptoms Thyroid trouble or golter	Severe							}			1	1				-	1		1		-		1		
Chronic Conditions: Asthma Allergies T.B. Chronic Bronchitis Sinus Attacks Rheumatic Fever Bardening of the Arteries High blood pressure Heart trouble Ströke Trouble with vericese veins Fench ulcer Other chronic stomach trouble Stomach ulcer Other chronic stomach trouble Stomach stomes or other eymptoms Arthritis or rheumatism Frostate trouble Diabotes Thoroid trouble or golter Convulsive seizures Ropested back symptoms Thumor or cancer Chronic skin trouble Eernia or rupture	Moderate																							-	
Chronic Conditions: Asthma Allergies T.B. Chronic Bronchitis Sinus Attacke Rheumatic Fever Bardening of the Arteries High blood pressure Heart trouble Ströke Trouble with vericose veins Frouble with vericose veins Frouble with vericose veins Frouble with vericose Trouble with vericose Trouble with vericose veins Frouble with vericose veins Frouble with vericose Trouble with vericose veins Frouble with vericose veins Frouble with vericose veins Frouble with vericose veins Frouble with vericose Trouble with vericose Stomach ulcer trouble Stomach ulcer frouble with vericose veins Frouble with vericose Stomach ulcer trouble Stomach ulcer frouble with vericose symptoms Truncial ve seizures Thuncr or cancer Chronic skin trouble Eernia or rupture										ļ	1		}	İ	ļ	-		I						İ	
	None							1								1		1							
• •		Asthaa	Allergies	T.B.	Chronic Bronchitia	Sinus Attacks	Rheumatic Fever	Bardening of the Arteries	High blood pressure	Heart trouble	with	Hemorrholds or piles	ę .	Stomach ulcer	chronic troubl	stones or eymptons	Arthritis or rhoumatism		Diabotes		Convulsive seizures	Repeated back symptons	Tunor or cancer	Chronic skin trouble	Ecrnia or rupture

(continued)
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Rennite:				Rendits:								Remarks:								Renarks:						
Hone Mild Moderate Severe		80 g		Kone Mild Moderate Serare	glasses					kind		ss or deformity Loft Right						-		Loft Right				Transportation of the contract		
Chronic Conditions: (Continued)	Powel Incontinence	Bladder Incontinence	Other	Impairments:	Vision, even with glasses	Cleft palate	Club foot	Speech	Cerebral palsy	Paralysis of any kind	Others	Pernanent Stiffness or deformity	Fingera	Eand	Arm	Toes	Foot	Log	Back	Missing:	Fingers	Esad	Arm	Toos	Foot	ಗ್ರಿಕ
ň				નં								*								ri H						

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PATIENT'S RACE (Leat) (First) (Middle)	DATE (Tear) (Month) (Date)
BIRTHDATE (Tear) (Honth) (Day) SEX Mele () Female ()	(Months)
HAME OF TEST	Tes () No () EXAMIBING PSTCHOLOGIST (Last) (717st) (Middle)
RATINGS OF PATIENT BEHAVIOR AND ACTITUDES OF PATIENT BEHAVIOR AND ACTITUDES	ATTITUDES OBSERVED DURING PSICHOLOGICAL EXAMINATION (af-Retarded Project)
1. EASE OF ESTABLISHING GENERAL CORMUNICATION	7. INTERPERSONAL - LIKING FOR EXMINER
5 Impossible or almost impossible to communicate 4 Fory difficult communications likely unreliable 3 Difficult somewhat unreliable 2 Fairly good reasonably rollable 1 Good to very good quite reliable	5 Very hostile or alcof 4 Fairly bostile or alcof 3 Moderately friendly toward examiner 2 Definitely friendly 1 Easily or quickly friendly
2. EASE OF MAKING TEST DIRECTIONS UNDERSTANDABLE	8. INTERPERSORAL - URPENDENCE UPON EXAMIRER
5 Impossible — dossn't understand what is required 4 Very difficult — understands very little. 3 Difficult — understanding comewhat unreliable 2 Fairly good — reasonably reliable 1 Good to very good — definitely understands directions	5 Extremely dependent upon E for support, otc. 4 Markedly dependent 3 Moderately dependent 2 Occasionally dependent, somewhat independent 1 Essentially independent of E for support
3. RAPPORT	9. KIRESIS - CENERAL HOTOR ACTIVITY
5 Impossible to establish any kind of reliable rapport 4 Very difficult to establish rapport 3 Difficult to establish rapport, but some established 2 Fairly good rapport established 1 Good to very good rapport established	Z Very markedly hyporkinetic or restless D Somewhat hyporkinetic C Stable or fairly stable, motoricelly B Somewhat lethargic, sluggish, or stuporous A Very markedly lethargic, sluggish, or stuporous
4. NORN HABITS - PERSISTENCE	10. EMOTIONAL TCHE
5 Very poor or gives up at slightest frustration by Quite poor or only little tolerance of frustration 3 Only fair or persistence is variable 2 Fairly good or persists much of the time 1 Very good or persists until asked to stop or until failure bocomes quite obvious	***************************************
5. KORK HABING - EFFORT	11. QUALITYING NOTES: (Add any comment to elucidate eny of the ratings, when this seems necessary.)
5 Little or no application even to initial stages of task 4 Quite poor even to initial stages of task 3 Only fair, needs special motivation to apply self, then does 2 Fairly good effort expended in initial stages 1 Very good of definitely good effort	NOTES REGARDING RATINGS: 1. Use a separete rating sheet for each exacines and for each exacinetion. 2. Rate S directly after administration of exacination.
6. INTEREST - INVOLVEMENT	
5 Shows no interest in task 4 Shows rory little interest in tesk 5 Shows moderate interest in task 2 Shows fairly considerable interest in task 1 Shows rery high interest in task MMR: 8-51	observed during the particular test. Avoid halo effect. 5. Where none of ratings amply, rate on the scale value which best fits the individual, then add any clinical notes to explain the qualifications you would like to express. In not cmit any rating for any individual for any testi

PATIEUTIS BAR (Last)	(First) (Middle	dle) DATE (Year) (Month) (Day)	SEX Male () Femsle ()	CAST NUKOZA
BIRTHDAIR (Tear) (Month) (Day)	AGE (Years) (Months)	XXAIHHG PSTCHOLOGIST	ROSPITAL	
		MICHIGAN FROJECT FOR THE DEAF-DETARDED		
		SUPCLATY RATING SCALM Based on Total Psychological Examination Schedule: Tests and Observations		
1. IEGRE OF CURRENT INTELLECTUAL INPAIROENT (Check one. This is an estimate and represents the degree to which you believe the highest obtained I.Q. on any of the tests is below the individually expectly were his emotional or physical handlens corrected or compusated	6. AIRCENT Ad represents a highest s below emotional compressed	EMOTIONAL TONG DIGRES OF MERRESSION 5. Yory severely depressed 4. Severely depressed 3. Moderately depressed 2. Slightly depressed 2. Slightly depressed 1. No depression endont	11. AVOUNT (Infer 5. 74 5. 54 6. 58 7. 58 7. 58	ANOUNT OF LATENT HOSTILITY (Inferred from clinical observations) 5. Fory severe 6. Severe 7. Severe 7. Slight
for. The steps on the scale are definel as follows:	Sfinel as follows:	Ę		None
	•)	5. Very marked euphoria	12. DEGREE	DEGREE OF EMOTIONAL MALADUSTMENT CHEONIC
 Moderate, b to 15 points Slight, not more than 5 I.Q. points None 	oints	4. Marked euphoria 3. Moderate euphoria Sileh euphoria		Very saverely disturbed Severely disturbed
2. EASE OF ESTABLISHING GENERAL COMMUNICATION (GENERAL)	NICATION (GENERAL)			Slightly disturbed Good adjustment
5. Impossible or almost impossible 4. Yery difficult	0	LEVEL OF OVERT ANXISTS S. Voty severe anxiety shows	יייביזצעי ברן	THE INDICATE OF THE PROPERTY O
		Severe anxiety		l
2. Fairly good 1. Good to very good		3. Moderate anxiety 2. Slight enviety 3. Which the state of the state	3°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	Severely distarbed Moderately distarbed
3. RELIABILITY OF GENERAL COMMUNICATION	•	acourant footoms of the		Good adjustment
 tales such, inglis inconsistent Quite inconsistent 	·6	LEVEL OF LAIENT ANAIETT (Inferred from clinical observation)	14. MOTOR	MOTOR DEXTERITY
 Moderately inconsistent Slightly inconsistent 		5. Very severe 4. Severe	5. 4.	Wery poor motor control Rainly poor motor control
1. Quite inconsistent		3. Moderate 2. Slight		Fair motor control
4. MORK HABITS PTASISTENCE 5. Very poor or gives up at slightest frustration	test frustration	None		Good to very good notor control
	rance of frustration 10. risble f the time ked to stop or until	AWOUNT OF OVERT HOSTILITY 5. Very severe hostility manifest 6. Severe hostility 7. Moderate 2. Slight	15. USE 0. 5. C. 6	OF LANGUAGE Cannot make self understood in language (vertal Can get very few ideas communicated Can communicate fairly well in language Can communicate well, only very slight handlosp
5. INTEREST INVOLVENCENT 5. Shows no intorest in task 4. Shows moderate interest in task 3. Shows moderate interest in task 2. Shows fairly considerable interest in task 1. Shows very high interest in task	task K rest in task sk		16. LIMEA this 5. W 5. W 5. W 5. W 5. W 5. W 5. W 5.	LIKEABILITY(How well do you, as the examiner like this individual?) 5. Wo liking at all: may even dislike him 4. Sone small liking for him; but feelings are mixed and negative 3. Neutral: do not dislike or like 2. Definitely like him a little 1. Definitely like him a great deal

17. Estimated level of present development to (Give clinical estimate WITHIN 6 months, if rossible, or at least WITHIN 1 year; thus, 6 yrs. 0 mos. to 6 yrs. 6 mos.)

NLH:10-61

18. Estimated, present I.Q. (Olve estimated I.Q. limits within 10 points, if possible, using units of 5 or 10 in defining these limits: thus. 70 to 80. or 75 to 85.)

7

Patient's name	(Last) (First) (Middle)) DATE (Year) (Month) (Day)	h) (Day)
	HOSPITAL		
•	PSYCHIATRIC EVALUATION (SOCIAL ADJUSTMENT)		
	Aggressive Tendencies		Schizold Tendencies
Extremely Kaladjusted	5. Extremely aggrossive and antisocial. Acts out strong hostile, antisocial impulses. May be psychopathic and very dangerous.	Extremely Malad justed	5. Extremely withdrawn and asocial. Requires constant strict supervision.
Severely Maladjusted	4. Severely aggressive, frequently acting out hostile, antisocial impulses. May be psychopathic. Frequently disobeys social rules or laws. Requires strict supervision and can be or is potentially dangerous to others or self.	Severely Maladjusted	4. Markedly withdrawn and esocial. Usually requires strict supervicion.
Moderately Maladjusted	3. Aggressive, unstable, unpredictable. Sometimes acting out fairly strong hostile impulses, e.g., violent temper tentrums. Possibly psychopathic. Sometimes disobeys social rules or laws. Requires some general supervision with strict supervision during episodes. During outbreaks can be possibly dangerous to others or self.	Moderately Kaladjusted	3. Withdrawn, unstable, unpredictabls, and sometimes has periode of withdrawal Requires some general supervision, particularly during periods of withdrawal.
Mildly Naladjusted	2. Aggressive, occasionally acting out hostile, antisocial impulses, e.g., temper tantruns. Occasionally may break social rules or laws, but usually not dangerous.	Mildly Maladfusted	2. Withdrawn, or occasionally with- drawn, but does not require supervision
Somewhat Maladjusted	1. Adjustment within normal range. Tends to be somewhat aggreasive.	Somewhat Maladjusted	1. Adjustment within normal rengo. Tends to be somewhat withdrawn.
Not Kaladfusted	0. Adjustment within normal range with no apparent difficulty in social adjustment.	Not Maledjusted	 Adjustment within normal range with no apparent difficulty in social adjustment.

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(First) (Last) PATIETT'S HAME

(Middle)

SEX Mele () Fenele () DATE (Year) (Month) (Day)

:

CASE NUMBER

HOSPITAL

PSYCHIATRIC RVALUATION (TENDERANIEM)

MANAMA

Level of Exposetivity

5. Extremely hypoactive. Totally incapable

of functioning.

Hypoactive

Ertremely

Extremely hyperactive and unstable.

Level of Hyperactivity

Totally incapable of functioning.

Hyperactive

Extremely

Hyperact1 ve

Severely

of some activity but usually severely hypoactivo. 4. Severely hypoactive, may have short periods Incapablo of functioning except for very brief

perioda.

Hypoact1 ve

bility, but usually severely hyperactive.

Incapable of concentrated functioning

except for very brief periods.

stable, may have short periods of sta-

Severely hyperactive. Highly un-

Severely

3. Moderately hypoactive. Placid, may alternate between periods of normal activity and periods of hypoactivity or may generally exhibit a moderate degree of hypoactivity. Functioning usually at a rary slow pace.

Eypoact1 ve

Moderately

Erparactive Mildly

episodes of hyperactivity. Functioning, particularly on tasks requiring accuracy somewhat unstable. May show periods of or concentration, somewhat impaired by normal activity letel with occasional 2. Mildly hyperactive tending to be activity level.

hyperactivity. Functioning, particularly on tasks requiring accuracy of concentra-

tion, impaired by hyperactivity.

may generally exhibit moderate degree of

activity and periods of hyperactivity or

Hyperactive

S Moderately

3. Moderately hyperactive and unstable. May alternate between periods of normal Hrpoact1ve

gree of hypoactivity and sluggishness. Functioning, 2. Placid, tends to be sluggish. May show periods of hypoactivity or may generally exhibit a mild deof normal activity level with occasional episodes particularly on speeded tasks, somewhat impaired. Generally, functioning at a slow pace.

> 1. Scmowhat hyperactive, but within normal renge of activity level. No apparent impairment of functioning. Experactive Somewhat

Eppoact1 ve 0. Functions within normal range of acti-

wity level with no apparent impairment of

functioning.

Epperactive

Wot

Somewhat

Not Epoactive

Functions within normal range activity level with no apparent impairment of functioning.

Somewhat hypoactive but with normal range of

activity level. No apparent impairment of

functioning.

ERIC"

Exhibit 4 (continued)
CASE NUMBER SEX Male () Female () DATE (Year) (Month) (Day) EXAMINER (Middle) (First) HOSPITAL PATIENT'S NAME (Last)

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ESYCHIATRIC EVALUATION (EMOTIONAL ADJUSTMENT)

	Level of Behavioral Disorganization		Level of Depression
Extremely Disturbed	5. Psychotic. In general, no contact with Exreality. Functioning completely impaired.	Extremely Disturbed	5. Psychotic. In general, no contact with reality. Totally unresponsive and unproductive. Requires constant supervision.
Severely Disturbed	4. Severe neurotic manifestations. In general, Semaintains contact with reality, but functioning Diseverely limited.	Severely Disturbed	4. Severe neurotic depression. Functioning severelimpaired. Marked absence of interest. Contact with reality maintained, but seriously unresponsive and unproductive. Requires constant supervision.
Moderately Disturbed	3. Some neurotic manifestations. Emotional Maladjustment seriously interferes with functioning. Subject to severe disturbance under mild stress.	Moderately Disturbed	 Marked depression. Functioning impaired with occasional show of interest, responsiveness and productivity. Needs general supervision.
Mildly Disturbed	2. Some interference with efficient functioning. Some mild neurotic manifestations leading to severe disturbance under moderate to severe stress.	Mildly Disturbed	2. Some depression, less marked. May function quit normally except in specific stress situations when need for supervision may be required.
Somewhat Disturbed	 Emotional adjustment generally within normal range with some disturbance following extreme stress. 	Somewnat Disturbed	1. Functions within normal range except in extremely stressful situations.
Not Disturbed	0. Emotional adjustment generally within normal nrange.	Not Disturbed	 Adjustment and reactivity generally within normal range.

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Exhibit 4 (continued) (Middle) SEX Mele () Female () DATE (Houth) (Day) BXAHINER HOSPITAL Patient's Man (Lest)

PSYCHIATHIC EVALUATION

Affective Reactivity: Never Rere Occasional Frequent Constant Hemarks									Nover Rare Occasional Frequent Constant Remarks		eringeligger, ellipseligger eringeliggeriggerig grante geringe				Bever Rare Occasional Fraquent Constant Benerkt			
Affective Reactiv	Cooperative	Demanding	Irritable	Suspicions	Apathetic	Disturbed	Destructive	Assemitive	Hallucinations:	Auditory	Visual	Olfactory	Tactila	Testo	Delugions:	Spontaneous	Milcited.	
				Renorkst										Romarket				
				Constant										Constent				
rko:				Frequent										Frement				
Renarko:				Rare Occasional							.			Occentenel				
S S				Rare Oc	ł	1	1	1		1	1		1	Hare Oc		1	1	.
Tes				Never				Ì						Never				
Orientation:	Time	Place	Person	Speech Pattern:	Normal	Overproductive	Underproductive	Coherent	Incoherent	Relevant	Irrelevent	Spontaneous	Forced	Hotoric Reactivity:	No real	Apathotic	Stuperous	Overactive

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SEX Male () Female () DATE (Middle) EXMINER EXMINER Characteristic Pattern Of Adaptation Characteristic Pattern Of Adaptation Manost Never Rarely Occasionally Frequently Constantly
ا احمادً ا ا

EXHIBIT 5

185111016					DATE		
PATIENT'S NAME	=			ورود مداد الله التاريخ التاريخ الماساني الماسانية			
BIRTHDATE							•
WARD	 			NUMBE	R IN WAR	D	
WARD SUPERVISO							
PRESENT PROGRA							
					a ya ana a sa a sa a sa a sa a sa a sa a		
BEHAVIORAL MAN	NIFESTA	ATIONS					
							
							
OBJECTIVE DATA	\						
ANECEDOTAL HIS	TOPY						
ANECEDOTAL HIS							-
					<u> </u>		
		REP	PORTED BY	Υ			
OBSERVATIONS:							
	A. RE	SPONSE T	O GROSS	SOUND			
	B. SP				_		
	1.	RECEPTI	VE				
	2.	EXPRESS	IVE				



EXHIBIT 5 (continued)

С.	MANUAL COMMUNICATION	N	
CENERAL ORSEDVATIO			
	NS:		
OBSERVATIONS MADE	IN		
, A.	WARD		
В.	SCHOOL		
•	WORK LOCATION		
	OTHER		
	TS		
OTHER		·	And the second s
EVALUATE FOLDER:	YES	NO	



		 		*** ** *** ***	mana ()	*** 4 ** ******** *** ***** *		74								
EXHIBIT 6	PERTINENT COMMENTS FROM FOLDERS AND PERSONAL OBSERVATION		Blind in right eye.	No Speech.		Defective Speech	Deaf.		•	Limited speech. Hearing Aid. 40db rt., 60db lt Manual Communicatjon.	Impaired hearing and speech. 3lind, right eye.	Impaired hearing and speech.	elind?	Deaf Mutism. Profound bilateral Sensori Neural Loss.	Deaf Mutism. Totally deaf.	Hearing Aid. Communicates manually.
ALES	SCHOOLING OR PROGRAM PRIOR TO LAMISSION	8#3H	Ноле	Нсте	Коте	Kinderaarten, Public School	Номе	Нощо	Ноте	Public School	Home	HOH	Foster Home	Refused Admit- tance at Rome School for the	Otsero School	Rome School for
	MEDICAL CLASSI- FICATION	33,68	78,68	11,11.2	Post Menin- ditis En- cephalopath	<u>წ</u>	314.90	dongolism	81,33	81,33	313.01	314.13	313.49	311.05	onaolism	78,33
	10	30	-20	28	က က	Q.	-20	23	38	0 9	21	-20	21	64	12(?)%ongo1	23
E SCHOOL	DATE OF ADMISSION	6/28/63	9/13/66	9/25/63	8/23/50	10/29/64	. 69/81/6	12/15/56	9/25/62	5/27/64	3/17/70	12/3/69	6/27/39	3/18/69	7/10/56	7/2/64
ROME STATE	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/24/56	3/19/64	3/26/58	7/21/46	5/24/57	9/28/62	7/7/56	1/12/54	1/18/49	8/17/63	7/12/65	5/3/68	1/16/59	3/22/43	7/13/46
	PATIENT CODE NUMBER	r	(7	ന	4	ហ	9	^	(3)	on .	0.	ار ارس	61	(O).	4	50

· · · · · · · · · · · · · · · · · · ·	FR0:	Marked hearing defect.	Deaf Mute.	Congenital deafness	Rejected by Rome School for the Deaf. Speech. Hearing Aid. Profound hearing loss.	Impaired Hearing. Bilateral Chronic Otitis Media.	Speech defect. One sibling at Rome School for the Deaf	Does not talk much. Hearing Aid.	7	Is deaf.	Deaf in right ear.	Specch defect. Understands speech Poorly.	Slurs words.	Absence of external ears. Bone conduction present. Hearing aid. Prfound hearing loss.
ES - conti	SCHODLING UR PROGRAM PRIOR TO ADMISSION	Catholic School	St. Coleman's	Foster care	ноше	Public School. Washiraton Mills School for Re- tardad.	St. Scleman's	Ноше	Public School	7. emo 7.	Public School	Public School, Special Class.	0 H 0 H 0	Foster Home
)	MEDICAL CLASSI- FICATION	Hereditary	25,89,39 (other dead mutism)	Undiffer- entiated	00,81,33	Undiffer. entiated.	. [8,00	Meninaitis 12,12.2	Familia Coll	Encephali- tis	6 8	00,81		. ee . ee
ı	0.1	<u>က</u>	51-60	41	8	44	46	99	58016	13(2)	7.0	(O	09	73
SCHOOL	1 ~1	4/9/53	9/26/67	4/6/54	8/30/67	.11/27/58	7/12/67	8/17/65	10/26/62	1/7/53	2/8/63	6/11/68	8/17/61	4/28/64
ROME STATE	1 60 6	12/18/44	11/21/54	1/26/51	12/25/58	11/6/46	5/29/57	.8/11/6	7/22/48	5/6/45	9/23/54	11/30/52	12/8/55	9/3/55
	7		7	80	6	. 50	7.7	22	53	24	C1 C2	52	27	(N)

:	·												an Militar Shina di di Shina Marana Min Maria di Amba	······································
EXHIBIT 6	PERTINENT COMMENTS FROM FOLDERS AND PERSONAL OBSERVATION	Hearing handicapped.	Hearing impaired. No speech.	Gross deafness, does not hear tuning fork. Some manual communication.	Impaired hearing and speech	Hearing aid.	Severe hearing loss. Manual Communication.	Hearing handicapped, no speech. Appears deaf.	Unable to talk. Otitis Hedia.	Reads lips. Appears to have serious hearing loss	Hearing questionable. Does not talk.	Cerebral Palsy, speech impaired.	Deaf mute - knows manual alphabet	Poor vision and hearing.
S - continu	PROGRAM PRIOR TO ADMISSION	Нопе	Hjorne	Cleary Oral Sch. for the Deaf. St. Mary's Sch for the Deaf.	Public School	Private School Bateoia Sch. for the Blind	Rome School for the Deaf.	Home	Home .	Ноте	Ноте	Sunshine School	-Rome School for the Deaf	H one
VI VI	GLASSI- FICATION	61,61.4,	25,89,62	09,12,12.2 39(deaf mute)	311.40	Familial. 61,38 (hearing	ಣ	10,11,11.9	61,68,33	32,68,33	Unknown	61,61.x, 68	Undîfferen tîatod. Ocaf-Mutis:	314.01
	10	- 20	34	ω κ	53	ლ	ဗ	-20	- 20	5 - 5 - 6 5	23.	. 52	81 11tal-	- 20
E SCHOOL	DATE OF ADMISSION	4/25/67	1/11/68	7/26/67	69/52/6	2/24/65	10/3/60	2/28/68	10/25/66	3/8/65	Feb./44	6/25/64	2/29/56 Conge	1/5/70
ROME STATE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12/3/63	5/25/65	11/15/42	6/9/58	5/12/42	8/30/47	1/8/64	4/27/67	1/16/60	12/4/40	11/24/53	12/7/39	11/28/64
	2	0) N	00	<u></u>	65 C3	ຕ ຕ	34	က်	90	37	က တ	ტე (ე	¢0	₹

EXHIBIT 6	T COMMENTS FROM FOLDERS ONAL GBSERVATION	eech and nearing.	ng losss.		·	ech and hearing.	aring. Deafness	17	Some manual communication	peech. Sibling at Rome the Deaf.	peech defect. Hearing		alk. Bilateral mastoid ty in 1970	ing impairment. Some manual on.	earing. Otitis Nodia. On
	PERTINEN AND PERS	Defective sponsoad lips.	Severe heari	Jeaf.	Does not tal	Impaired spe	Impaired hea	No Speech.	Deaf mute.	Defective sp School for t	Deafness. S Aid.	Hearing Aid.	Unable to tal Tympanopiasty	Severe heari communicatio	Sofective he Family Care
	SCHUCING OR PROGRAM PRIOR TO ADMISSION	St. Joseph's Infent Home.	ə ಜ ೧ ೯	Ноше	Нэте	St. Margaret's House	St. Margaret's House.	Syrecuse Speech & Hearing Clini	Rome School for the Deaf	Foster Home	0 8 9	Public School	ញ ទ ស ស ស ស ស ស ស ស ស ស ស ស ស ស ស ស ស ស	Refused Admit- tance at Rome Sch. for the Doaf.	Roma School for the Essf.
υν(ιμ[REDICAL CLASSI- FICATION	11,33,34.5	32,33,68	Familial	06,69,22,	01,64	00,81	25,89	Familial	. 13,00	61,67:9,33	78,33	Trauma during Sirth.	24,73	Familial
	. 01	28	25	-20	- 20.	42	62	. 50	62	0,	n n	20	20	4.	62
SCHOOL	- DATE OF ADMISSION	12/11/62	9/16/65	4/26/61	6/5/57	7/27/65	12/15/64	11/4/64	5/23/58	8/31/66	09/21/01	5/1/67	4/7/59	9/20/6	5/7/57
ROME STATE	SIRTHA	52	2/19/61	.2/12/49	2/6/62	10/13/64	3/22/57	4/1/55	12/15/51	4/13/62	9/17/52	8/26/59	3/24/54	0/16/53	1/3/43
		42	43	44		9 4	. 47	89	O) %	က္ခ	ທ .	52		5. A.	ស
$\Gamma \Gamma$						•		77			•				

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ROME STATE SCHOOL

EXHIBIT 6

<i>:</i>	ا المنظم الم	· 	** **** * * * * * * * * * * * * * * *	, dissiri passa in dirituati sta i tibu, ang ab gang-		4,		78		an ann an t-aire				needs at the server	m em man en en en en en en en en en en en en en
O TICTIVITY	PERTINENT COMMENTS FROM FOLDERS AND PERSONAL OBSERVATION		Severe hearing loss. No speech. Aphasia	Deaf mute. Hearing Aid.	Speech and hearing defects	otally deaf.	Bilateral deafness. Speech impair- mont. On Family Care.	Hearing and speech impaired	No speech. Severe hearing loss.	Deafness. On Family Care.					
	SCHOOLING OR PROGRAM PRIOR TO ADMISSION	t. Heraar ome	as occursion	Refused Admit- tance by Rome School for the Deaf.	Public School	Public School	Public School	Refused Admit- tance at Rome School for the Deaf	Fome	F 01.1e				-	
	SLASSI- FICATION	,62,62	တ ပေ	311.04	Familial	Unknown	81,33	68	314.03	312.87 389(deaf- ness)	•				
	IO		74	61	57	b b	. 52	8	- 50 .	42					
	DATE OF ADMISSION	8/6	5/7/64	5/29/59	10/9/57	10/12/48	1/3/62	7/13/62	. 2/3/70.	7/21/48		•	-		
תוטוס חוסיי	0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/15/64	5/23/53	12/1/60	:5/22/42	1/19/47	5/2/48	5/4/49	11/29/63	12/28/42					: mah 1970)
	PAT 1 E8 CO 2 E8 C CO 2 E8 C C C C C C C C C C C C C C C C C C	5.6	5,7	 	59	20	. 6	∾ 9	63	64.					22:0 (3ct

		and the second			a y Miller der venn få		n men effer de ende endeman per			7:	}			n iş ba işşan is işk iş anı	A 49, 120 A T 18 W. W.			40 50,
E BIJ	PERTINENT COMMENTS FROM FOLDERS AND PERSONAL OBSERVATION		Blind, hearing handicapped.	Does not talk	Hearing loss	Does not talk	Deaf mute	Hearing handicapped, appears deaf.	Hearing and speech defect.	Deaf mute.	Hearing impaired.	Limited speech. Can't hear.	Hearing loss.	Hearing handicapped. Is deaf.	Does not talk.	No speech or hearing.	No speech. Hearing questioned.	Not available.
FE	SCHOOLING OR PREGRAM PRIOR TO ADMISSION	Home	Batavia School	Нотз	Ноже	Нове	Rochester Sch. for the Deaf	Ноте	Ноте	Ho#s	9 E O E	Ноше	€ 0 € 0	ношэ	Нове	Homa	Tione General Hospital	Not available
	MEDICAL CLASSI- FICATION	Sirth Trauma	81,36	23	11.2	Not given	23,32,39,	33,69	78	Undiffer- entiated.	Mongolism	Mongolism	Not given	11.2,68,	Birth Irauma	62.5,4x	313.49	Not avail.
	IQ	25-35	72	23	-20	÷20	77	20	25	25	42	31	33	20	29	47	34	23
100	DATE OF ADMISSION	3/13/59	2/4/66	99/08/9	3/12/68	5/20/52	2/7/63	12/11/63	3/1/63	3/8/55	4/24/56	8/2/50	8/27/70	10/26/66	5/21/55	99/8/9	1/6/69	Not avail.
ui Li	BIRTH- DATE	3/2/54	10/3/44	6/10/63	29/6/2	4/19/47	3/22/46	12/4/57	9/3/57	1/2/50	11/2/54	8/20/44	12/30/64	10/15/64	2/11/51	11/4/64	4/17/66	15 years
in in	PATTENT CODE HEKSER	 -	~	'n	4	വ	Ю	_	ω	O)	10		12	8	77	15	16	17
ERI Full Text Provided by	C Y ERIC						•			7.3				-			-7-	

20H00L
DATE OF CLASSI- ADMISSION IQ FICATION
6/17/68 32 78
2/20/67. -20. 78
8/13/68 30 314.40
10/5/70 26 Not yet Classified
8/8/66 -20 11.2
11/7/69. -20 314.12
2/4/59 48 Undiffer- entiated.
7/66 30 23
11/29/65 25 69
/11/55 -20 Congenital Cerebral Spastic
10/24/51 -20 Unknown
10/27/50 38 Heredity
1/29/62 31 62.1
2/19/65 40 64
5/3/61 [51 89
5/15/59 34 Undiffer- entiated.
8/26/63 24 79

NEXARK STATE SCHOOL	SIAIE	CHUOL		·	- MEDICAL I	MAL. 1	ЕлнтВІТ. /
CODE BIRTH- DATE OF HUMBER DATE ADMISSION IQ	IRTH- DATE OF ATE ADMISSION	NOIS	10	1	CLASSI- FICATION	PROGRAM PRIOR TO ADMISSION	PERTINENT COMMENTS FROM FOLDERS AND PERSONAL OBSERVATION
8/2/55 12/3/68 81	2/55 12/3/68	2/3/68	8		310.12	Rochester Pub- lic Schools	Cannot Speak. Hearing.loss(?).
10/25/57 5/6/64 30	5/6/64	5/6/64	30		78,31	Home	Cannot talk. Hearing loss(?).
4/15/55 2/23/65 48	5 2/23/65	2/23/65	48		Undiffer- entiated.	Rochester St. Hospital	Hearing loss. Otitis Media.
6/14/55 9/29/60 28	9/53/60	9/53/60	28		78	Нове	Does not talk. Hearing loss.
7/30/58 11/5/62 40	11/5/62	11/5/62	40		83	Ноте	Cannot hear or talk.
11/17/44 8/25/50 30	1/17/44 8/25/50 30	8/25/50 30			Congenital Cerebral Spastic Paraplegia	о ш о ш о	Congenital deafness. Deaf mute.
10/10/47 5/16/56 Not avail	5/16/56 Not avail	5/16/56 Not avail	Not avail		Not avail- able	Rochester Day Care Center	Pròfound Bilateral Sensori-Neural hearing loss.
9/3/53 11/5/64 40	53 11/5/64		40		33,78	Foster home.	Deaf mute.
9/20/41 3/19/48 34	/20/41 3/19/48	3/19/48	34		Develon- mental.	Ноше	No speech. Possible nearing loss.
2/19/57 5/10/62 32	7 5/10/62	5/10/62	32		11.2,38	Home	Central hearing loss.
und. 16 FOLDER	. 16 F 0 L D E	— О Г О	EX.		V + 0	AI:ABLE.	
und. 16 F O L D E R	. 16 F 0 L D E	 			A - 0 ×	AI:ABLE.	
		·					
			•				
			•				
			,				
19:01 (mah (may, 1970)	Q C A C					-	

TABLE 1

		Total	Under	22 years and over	7545 2115	83 86 169	29.76	2.87 4.82
ATION			rs All	er ages	1	63	22.15	7.23
E POP JLA	Sex	Females	22 years	and ove		30	28,68	4.44
CHARACTERISTICS OF SAMPLE POPILATION	Age and Sex		Under	22 years and over		33	16.22	2.74
TERISTI			A11	ages		106	24.18	7.67
CHARAC		Males	22 years	and over		56	30,34	76.4
			Under	22 years		50	17.28	2.89
		•	•			Number	Mean Age	Standard Deviation

TABLE 2

ACADEMIC ACHIEVEMENT Subject Arithmetic Number Number Number Standard Deviation Spelling Number Spelling Number Spelling Number Standard Deviation	MENT (GRADE LEVEL) Age ales years All Un d over ages 22 y 1.6 1.9 1 1.4 1.5 1 1.3 1.5 1 1.3 1.5 1 1.3 1.5 1 1.3 1.5 1 1.3 1.5 1 1.3 1.5 1 1.3 1.5 1	22 22 11. 22 22 22 24 24 24 24 24 24 24 24 24 24	BASIC SUBJECT BY A Sex Females 22 years All Sex And over ages 18 40 2.4 1.9 1.6 1.4 1.8 40 2.8 2.0 2.8 2.0 2.1 1.9 2.8 2.0 2.1 1.9 2.0 2.0 2.0 1.7	WE WE WE WE WE WE WE WE WE WE WE WE WE W	AND SEX Under 22 years 57 1.9 1.4 1.5 1.5	Total 22 years and over 51 1.9 1.9 1.9 1.9	All ages 108 1.9 1.5 1.7 1.5 1.5
---	--	--	--	--	---	---	---

TABLE 3

RESULTS OF PHYSICAL	EXAMINATION	
Number of Physical		
Disabilities*	Number	Percent
No apparent disability	32	7 21.3 :
One disability	53	35.3
Two disabilities	40	26.7
Three disabilities	18	12.0
Four disabilities	4	2.7
Five disabilities	2	1.3
Six disabilities	$\frac{1}{150}$	$\frac{.7}{100.0}$

^{*} In addition to presumed mental deficiency and deafness.



				Age and Sex	ex				
		Males			Females		,	Total	
	Under	22 years	A11	Under	22 years	A11	Under	22 years	A11
	22 years	and over	ages	22 years	and over	ages	22 years	and over	ages
Number*	33	36	69	22	17	39	55	53	108
Mean	31.67		36.30	21,36	35,59	27.56	27.55	39.00	33.15
Standard Deviation	22.73	20.36	22.01	17.78	24.72	22.24	21,58	21.96	22.49

TABLE 5

		SPEECH DIS	CRIMINA	SPEECH DISCRIMINATION (SD) BY AGE AND SEX	BY AGE AND	SEX			
				Age and Sex	ex				
		Males			Females			Total	
	Under	22 years	A11	Under	22 years	A11	Under	22 years	A11
	22 years	22 years and over	ages	22 years	22 years and over	ages	22 years	22 years and over ages	ages
Number*	. 26	18	777	16	8	24	42	26	68
Mean	82.38	77.89	80.54	87.25	92.25	88.92	84.24	82.31	83.50
Standard Deviation	21.33	21.44	21.49	15.21	13,47	14.84	19.37	19.86	19.81
	_								

* No scores obtained on sixty patients.

TABLE 6

ERIC

	AUDIOI	AUDIOLOGIST CLAS	CLASSIFICATION	GF GF	HEARING LOSS	BY AGE	AND SEX			
					Age and	Sex				
Classification*		Males						Total		
	Under 22 years	22 years and over	A11 ages	Under 22 years	22 years and over	A11 ages	Under 22 years	22 years and over	s A11	ages %
I - Normal Limits (0-15 dB)	11	9	17	13		20	24	13	37	28.91
II - Mild Loss (20-40 dB)	6	14	23	9	ю	6	15	17	32	25.01
<pre>III - Moderate Loss (45-60 dB)</pre>	11	14	25	7	7	8	15	18	33	25.78
IV - Severe Loss (65-80 dB)	₀	∙ ™	9	H	1 0	9	7	ω	12	9.37
V - Total Loss (85-100 dB)	ъ	6	12	2	0	2	. 7	6	14	10.93
Number	37	. 46	83	. 26	19	45	. 63	. 65	128	100%
Mean	2.41	2.89	2.68	1.96	2.37	2.13	2.22	2.74	2.48	
Standard Deviation	1.22	1.29	1.28	1.23	1.21	1,12	1.67	1.29	1.29	

* Decibel loss in multiples of five.

TABLE 1

ERIC Provided by ERIC

Percent of Impairment* Males Age and Sex Age and Sex Impairment* Under 22 years and over ages 22 years and over ages 22 years and over ages I - 0-10% 15 9 24 4 9 13 II - 15-35% 8 4 12 3 1 4 III - 40-60% 4 3 7 12 1 1 13 IV - 60-85% 3 12 15 2 3 5 10 Number 37 46 83 26 19 45 Mean Class 2.43 3.57 3.06 2.68 2.89 Standard Deviation 1.54 1.52 1.64 2.09 1.75 1.49		PERCE	PERCENT OF SPEE	CH IMP	PEECH IMPAIRMENT BY AGE AND SEX (AMA GUIDE)	AGE AND SE	X (AMA	GUIDE)			
t Males Females Under 22 years A11 Under 22 years 15 9 24 4 9 15 9 24 4 9 8 4 12 3 1 4 3 7 12 1 5 7 18 2 3 6 7 18 25 5 7 18 25 5 5 8 46 83 26 19 9 3.04 2.68 1.75 20,43 3.57 3.06 2.09 1.75						and					
t* Under 2 years and over ages 22 years and over ages 22 years and over ages 22 years and over ages 32 years and over ages 32 years and over ages 32 years and over ages 32 years and over 32 and over 33 and ages 32 and over 34 and	Percent of		Males			1			Total		
15 9 24 4 9 15 15 15 15 15 15 15	Impairment*	Under	22 years	A11	Under	22 years	A11	Under	22 years	₹	ag
15 9 24 4 9 8 4 12 3 1 4 3 7 12 1 3 12 15 2 3 5 7 18 25 5 5 37 46 83 26 19 3viątion 1.54 1.52 1.64 2.09 1.75		77 Jears	alla over	ages	22 years		ages	22 years	and over	Z	%
8 4 12 3 1 4 3 7 12 1 3 12 15 2 3 k 7 18 25 5 5 5 5 7 19 5 7 10 7 146 83 26 19 5 7 164 1.52 1.64 2.09 1.75	I - 0-10%	15	6	24	7	6	13	19	18	37	28.50
4 3 7 12 1 3 12 15 2 3 3 7 18 25 5 5 37 46 83 26 19 3viation 1.54 1.52 1.64 2.09 1.75		8	. 7	12	က	П	7	11	5	16	12.50
2 12 15 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	%09-07 - II	7	3	۲.	12	П	13	16	4	20	15.63
7 18 25 5 37 46 83 26 19 7 2.43 3.57 3.06 3.04 2.68 7 1 54 1.52 1.64 2.09 1.75	IV - 60-85%	e	12	15	2	က	2	50	15	20	15.63
37 46 83 26 19 2.43 3.57 3.06 3.04 2.68 eviation 1.54 1.52 1.64 2.09 1.75	V - 90-100%	7	18	25	5	5	10	12	23	35	27.34
37 46 83 26 19 2.43 3.57 3.06 3.04 2.68 eviation 1.54 1.52 1.64 2.09 1.75											
2.43 3.57 3.06 3.04 2.68 eviation 1.54 1.52 1.64 2.09 1.75	Number	37	97	83	26	19	45	. 69	65	128	100%
1.54 1.52 1.64 2.09 1.75	Mean Class	2,43	3.57	3.06	3.04	2.68	2.89	2.68	3.32	3.00	
	Standard Deviation	1.54	1.52	1.64	2.09	1.75	1.49	1.16	1.65	1.58	
	- {										

ERIC Full Text Provided by ERIC

	O OD OF ITTUE	AUDIOLOGISI JUDGMENI OF IOIAL S	SPEECH A			집	AGE AND SEA	SEA (ALM SOLEL)	(E)	
					Age and	Sex				
Classification of		Males			Females			Total		
Impairment	Under 22 years	22 years and over	All ages	Under 22 years	22 years and over	All ages	Under 22 years	22 years and over	s All r N	ages %
I - None (0-10%)	12	7	. 16	7	5	6	. 16	6	25	19.53
II - Mild (11-23%)	7	7	14	٣	9	6	10	13	23	17.97
III - Moderate (24-35%)	ن	. 4	6	7	ທ	7	7	6	16	12.50
IV - Severe (36-47%)	7	12	. 16	.	9 .	11	6	18	27	21.09
V - Critical (48-58%)	Q	19	28	2	4	6	. 14	23	37	28.91
Number	37	97	83	19	26	45	95	72	128	100%
Mean	2.76	3.76	3,31	3.21	2.92	3.04	2.91	3,46	3.22	
Standard Deviation	1.58	1.36	1.55	1,46	1,36	1.43	1.58	1.41	1.53	

		TOTAL NOTE	IN TELLI GENCE	1ESI SCUKES	BI AGE	AND SEA			
		Males			Age and Se Females	ex		Total	
Name of Test	Under 22 years	22 years and over	A11 ages	Under 22 years	22 years and over	A11 ages	Under 22 years	22 years and over	All ages
Wechsler (WISC-WAIS) Performance Scale Number	32	36		24	. 1	07	92	52	108
IQ Mean Standard Deviation	61.50	60.89 16.41	61.66 22.88	58.42 17.00	63.50 13.09	60.45	60.18 24.26	62.33 15.48	61.21
Verbal Scale Number	26	17			14		41		
IQ Mean Standard Deviation	59.69	59.41 20.63	59.58 15.42	,53.73 7.16	57.50	55.55 8.25	57.51 9.99	58.55 16.43	57.96
Full Scale Number	25	16	41	14	13	27		29	68
IQ Mean	62.52	59.81	61.46	53.29	58.00	55.55	59.21	59.00	59.11
Standard Deviation	11.27	•	•	٣.	o.	o.	1.5	•	0.2
Modified Goodenough Draw-A-Person Test Number	41	97	87	24	22	95	. 65	89	3
IQ Mean	59.80	62.07	61.00	9	Ц	58.87	58.65	61.81	60.26
Standard Deviation	16.40		9	15.44	•,4	9	6.1	9.7	8.1
Bender-Gestalt, Rev. Number	41	67	9	29	23	52	70		\vdash
IQ Mean	74.56	72.00	73.17	64.21	73.04	68.12	70.27	72.33	71.32
Standard Deviation	16.86	•		∵.	œ	Ö	9.9	1.3	•

TABLE 10

	MEDIAN SCORES	O.F.	MEASURES	O.F.	INTELLIGENCE BY	AGE AND	ID SEX		
					Age and	Sex			
		Males			Females			Total	
Measure	Under	· >>	A11	ı :	15	A11	P	12	J
	22 years	and over	ages	22 years	and over	ages	22 years	and over	All ages
Wechsler (WISG-WAIS)	,								
Number*	20	56	106	33	30	63	83	98	169
Median	62	70	20	77	77	777	51	42	95
Verbal Scale									
Number*	20	56	106	33	30	63	83	86	169
Median	45	43	43	. 55	74	747	5 7	43	43
Full Scale									
Number*	20	56	106	33	30	63	83	86	169
Median	43	43	43	43	43	43	43	43	43
Modified Goodenough									
Number*	20	26	106	33	30	63	83.	98	169
Median	53	20	20	64	20	20	52	20	20
Bender-Gestalt, Rev.									
Number	20	56	106	33	30	63	83	86	169
Median	74	75	7.2	09	. 75	72	72	75	72

* Patients for whom no scores were obtained were included at the lowest score in the obtained group.



TABLE 11

CORRELATIONS BETWEEN WECHSLER PERFORMANCE IQ AND OTHER DIAGNOSTIC MEASUREMENTS*

Measurement	Correlation with Wechsler
Achievement	
Arithmetic	r .57
Reading	r .38
Personality	
General adjustment	ø .26**
Behavioral disorganization	ø .40**
Chronic maladjustment	φ .25
Depression	ø .24
Nineteen Factor	r .55**

- * Only correlations significant at P<.05 are given.
- ** Scores converted in direction from that shown in exhibits.

TABLE 12

CORRELATIONS BETWEEN SPEECH AND HEARING TESTS AND OTHER DIAGNOSTIC MEASUREMENTS

	DIAGNOSTIC	J MEASUREMENTS		
		Other Diagnos	stic Measures	· · · · · · · · · · · · · · · · · · ·
	Wechsler	Examiner's		
Speech and Hearing Test	Performance	Estimate of	Reading	Arithmetic
	IQ	IQ	Achievement	Achievement
Audiologist's Classification of				
Impairment	. <u>.31</u>	<u>.65</u>	.03	<u>.32</u>
Impairment of				-
Total Man	.01	- <u>.36</u>	- <u>.32</u>	- <u>.20</u>
Speech Reception Threshold	<u>.26</u>	.23	.10	.24
Pure-Tone (Air)	14	.16	01	.10

^{*} Underlined correlations are significant at P<.05.



	COMPARISON	OF RESULTS		K MEASURES	BY VOCATION	ON DATA BANK MEASURES BY VOCATIONAL PLACEMENT			
				Vo	Vocational Placement	acement			
Tests	She	Sheltered Workshop	shop		Institution	u	ŭ	Community.	
	Number	Mean D	Standard Deviation	Number	Mean	Standard Deviation	Number	Mean	Standard Deviation
Intellectual Function Wechsler Performance							,		
·· bī	15	6.89	13.0	3	75.7	2.5	2	77.8	11.3
Object assembly	15	8.1	2.7	7 1	8.0	1.2	94	8.5	ω α π α
Picture arrangement	_ :: ::	3.3	2.9	m	5.0	. 8.	o 10	0.0	2.3
Picture comprehension Digit symbol	71 7	5.0	2.9	7 7	3.8	2.5	7 9	5.8	2.8
Chicago Non-Verbal	16	53.9	28.3	7	2.99	26.3	9	70.3	21.6
Raven Progressive Matrices	16	24.2	5.8	4	26.5	3.8	9	24.2	5.2
Vocational Aptitude Grawford Dexterity									
Part I (in minutes) Part II	14	9.98	3,20	7 7	7.81	1.72	9 9	10.22 12.54	6.74
Minnesota Manipulation				_					
	13	183.5 175.2 138.5	62.5 70.6 36.9	7 7 7	169.3 169.7 121.3	67.0 50.7 39.4	ν ν ν	148.4 140.4 121.8	42.3 50.1 39.2
One-nand curning and placing	13	217.3	61.7	7	184.5	16.6	٥	186.6	51.8
	13	140.6	52.0	7	158.5	50.1	5	117.2	43.7
Minnesota Spatial Relations	13	1520.3	461.4	4	1640.3	636.5	5	1492.2	623.4
Pennsylvania Bi~Manual									
Part A (in seconds) Part D	13 13	843.8 430.3	235.8 116.4	7 7	836.0 356.8	121.8 44.8	7 7	639 <u>.</u> 3 309 <u>.</u> 5	142.3 119.0
Bennett Hand-Tool Dexterity Test (in min.)	13	13.38	3.68	7	13.78	1.11		15.16	3.29
Motor Function									•
Lincoln-Oseretsky Motor Development		64.7	16.1	8	57.3	3.3	7	70.8	8.6
				-					



Rome State School

1001		3,774
Male:	626	
Female:	324	
Total:	9 50	
es, all		
Male:	98	
Female:	_58	
Total:	156	
ctional		
Male:	41	
Female:	_23	
Total:	64	
ctional d E		
Male:	7%	
d E	7% 7%	
	Female: Total: cable es, all ce) Male: Female: Total: cable ctional this Male: Female: Total: Educable	Male: 626 Female: 324 Total: 950 Cable es, all ce) Male: 98 Female: 58 Total: 156 Cable et ctional this Male: 41 Female: 23 Total: 64



Table 14 - continued

IQ Range of hearing impaired T and E residents, ages 6-30.

Low: -20

High: 85



Newark State School

Population of Newark State	School		2,326
Number of Trainable and Eduresidents, ages 6-30 (estime		626	
Number of Trainable and Eduresidents, ages 6-30 with functional hearing losses a defined by this study.			
	Male:	29	
	Female:	17	
	Total:	46	
Percentage of Trainable and residents, ages 6-30 with f hearing losses to total T a dent group, ages 6-30 (no s down)	unctional nd E resi-		
	Total:	7%	
IQ range of hearing impaire residents, ages 6-30.	d T and E		
	Low:	20	
	High:	81	

New York State Department of Mental Hygiene, Resident Survey, State Schools

June, 1969

Number of State Schools:

15

Total Number of Residents:

Male:

14,255

Female:

11,510

Total:

25,765

Number of Residents, as determined by the Survey, who:

	No.	- %
Are hard-of-hearing:	1,419	5.5
Are totally deaf:	412	1.6
Combined:	1,831	7.1



Table 17

Patients With and Without Hoaring Handicap by Degree of Handicap by Hospital (with percentages) Karyland State Hospitals for the Rotardod 1968

	Both Hospitals Rosewood		ewood -	Henryton			
Dogree	of Handicap	No.	Porcont	No.	Percent	No.	Percon
ALL PAT	IENTS	3181	100.0	2810	100.0	374	100.0
	icap, hearing	<u>2720</u>	85.5	2393	. 85.2	327	88,1
or h	l with handicap andicapping con- on, all degrees	<u>461</u>	<u> 11.5</u>	417	<u>14.8</u>	गिर	11.9
	Some hearing problem, mild	174	5.4	136	4.8	38	10.2
	Severe hearing problem	17	0.5	16	0.6	1	0.3
	Some problem, degree not determined	113	3.6	110	3.9	3	0.8
	Apparently totally deaf	lili	1.4	43	1.5	1	0.3

Table 18

Approximation of Degree of Hearing Loss of the Hespitalized Hearing Impaired Retarded Population of Maryland N = 461

	Prevalanco	
Estimated Degree of Hearing Loss	Numbor	Precent
Deaf	32	6.9
Severe Hearing Problem (Cannot understand speech)	43	9.3
Observable or Measureable hearing loss, but not Severe	118	23.6
Hearing Loss Established but Degree Unknown	268	58.1

